

JOHN IRISH

NEW DATA ON LEPISMATIDAE, MAINLY FROM
ITALY AND NORTH EAST AFRICA,
WITH NOTES ON THE STATUS
OF *CTENOLEPISMA ROTHSCILDI* SILVESTRI

(INSECTA: THYSANURA)

The following is based mainly on the entomological collection of the Museo Storia Naturale Genova (MSNG), with the bulk of material coming from Italy, Ethiopia and Somalia. For the sake of completeness, a few additional records from the same territories were added. The latter specimens are from the California Academy of Sciences, San Francisco (CASC), Illinois Natural History Survey, Champaign (INHS), Museum National d'Histoire naturelle, Paris (MNHN), United States National Museum, Washington DC (USNM), Zoölogisch Museum, Amsterdam (ZMAN), and the Zoologiska Muset, Helsinki (UZMH). In quoting previous literature records, only the earliest are given.

***Acrotelsa collaris* (F.)**

Material examined. ETHIOPIA: Assab, XII.1884, G. Frasca; 1 ♀, 1 ♂ (MSNG). Massauah, ii. [18]95, K.M.L.; 1 ♀, 1 ♂ (UZMH). IRAN: Isola di Farur Nabi, Golfo Persico, 23.II.1956, Marcante; 1 ♀ (MSNG). SOMALIA: Oddur, 1929, N. Mosconi BL; 1 ♀ (MSNG). Piana di Bieiar (Giumbo, basso Giuba), Luglio 907, G. Ferrari; 1 ♂ (MSNG). Belet Amin, 1934, Patrizi & Confalonieri; 2 ♀♀, 2 ♂♂ (MSNG).

Recorded before from Ethiopia (STACH 1935) and Somalia (MENDES 1988). New for Iran.

(*) Nasionale Museum, Posbus 266, Bloemfontein 9300, South Africa

Ctenolepisma (Ctenolepisma) algharbica Mendes

Material examined. ITALY: Sardegna S-W (CA), Is. di Retti, 13.V.1988, R. Poggi; 2 ♂♂ (MSNG).

Previously known from southern Portugal only (MENDES 1978).

Ctenolepisma (C.) ciliata (Dufour)

Material examined: ITALY: Is. Camere Est (Sardegna N-E, prov. SS), sub Euphorbia dendroides, 11.IV.1986, leg. R. Poggi; 2, 1 ♀, 1 ♂ (MSNG). Is. Camere W (Sardegna N-E, prov. SS), 11.IV.1986, leg. C. Manicasteri; 4, 1 ♀, 3 ♂♂♂ (MSNG). Isola dei Cavoli (CA), Sotto Pistacia, 9.IV.1989, R. Poggi; 2 ♂♂ (MSNG). Is. Molara (Sardegna N-E, SS), 9-IV.1986, leg. M. Bologna; 2 ♀♀ (MSNG). Sardegna N-E: Is. Molara (SS), 10.XI.1986, leg. C. Manicasteri; 1 ♀ (MSNG). Sardegna N-E: Is. Molara (SS), 10.XI.1986, leg. L. Tonon; 1 ♂ (MSNG). Sardegna N-E: Is. Molara, 10.XI.1986, leg. M. Galdieri; 1 ♀ (MSNG). Is. Molarotto (Sardegna N-E, SS), 10.IV.1986, leg. M. Bologna; 1 ♀ (MSNG). Is. Molarotto (Sardegna N.-E., prov. SS), 10.IV.1986, leg. R. Poggi; 1 ♀ (MSNG). Sardegna N-E: Is. di li Nibani 1 (SS), 11.XI.1986, leg. L. Tonon; 3 ♀♀♀ (MSNG). Is. Tavolara (Sardegna N-E, prov. SS), 8.IV.1986, leg. V. Cottarelli; 2, 1 ♀, 1 ♂ (MSNG). Is. Tavolara (Sardegna N-E, SS), 8.IV.1986, leg. M. Bologna; 1 ♀ (MSNG). Sardegna N-E: Is. Tavolara (SS), 9.XI.1986, leg. M. Galdieri; 1 ♂ (MSNG). Sardegna N-E: Is. Tavolara (SS), Settore S-W, al voglio, 9.XI.1986, leg. R. Poggi; 1 ♀ (MSNG). Sardegna N-E: Is. Tavolara (SS), Spalmatore di Terre, 9.XI.1986, leg. R. Poggi; 1 ♀ (MSNG). Sardegna N-E: Is. Tavolara (SS), strada militare, vers. N-W, 9.XI.1986, leg. M. Zapparoli; 1 ♀ (MSNG). Sardegna N-E: Is. Tavolara (SS), zona bassa, dietro l'abitato, 9.XI.1986, leg. M. Zapparoli; 3, 1 ♀, 2 ♂♂ (MSNG). Is. Giglio, IX.900; 1 ♀♀ (MSNG). Isola Linosa, 27.IV.1986, leg. N. Baccetti; 1 ♂ (MSNG).

Recorded from Sardinia (MENDES 1980) and Linosa (STACH 1926) before. New for Giglio.

Ctenolepisma (C.) feae Silvestri

Material examined. CAPE VERDE ISLANDS: Is. Capo Verde, S. Vincenzo, Dint. Mindello, 15.XII.1908, Dr. Andreini; 1 ♀, 1 ♂ (MSNG).

Common in the Cape Verde Islands, and recorded from S. Vicente before (PACLT 1966).

Ctenolepisma (C.) lineata (F.)

Material examined. CANARY ISLANDS: Lanzerote, 15.VIII.1882, Crociera del "Corsaro"; 1 ♂ (MSNG). Tenerife, Pico de Teyde, Alta Vista, 23.7.31, R. Storà, 1 ♀, 1 ♂ (UZMH). ITALY: Genova, città, 15.IV.1987, leg. R. Poggi; 1 ♀ (MSNG). Is. Molarà (Sardegna N-E, prov. SS), 9.IV.1986, leg. R. Poggi; 1 ♀ (MSNG). Sardegna N-E: Is. di li Nibani 3 (SS), 11.XI.1986, leg. R. Poggi; 2 ♂♂ (MSNG). Sardegna N-E.: Is. di li Nibayiz, 11.XI.1986, Leg. C. Manicastro; 1 ♀ (MSNG).

Common in the Canary Islands, and recorded from both Lanzarote and Tenerife before (RIDLEY 1881; PACLT 1966). First recorded from Sardinia by PARONA (1892), and from Genova by PARONA (1888).

Ctenolepisma (C.) longicaudata Escherich

Material examined. ITALY: Ge. Bolzaneto-Begato, 12.III.1989, leg. Paganini; 4, 2 ♂♂, 1 ♀, 1 unsexed broken (MSNG). Genova, Albaro, 20.II.1985, leg. S. Botti; 2, 1 ♀, 1 ♂ (MSNG). Genova, città, I-1986, leg. R. Poggi; 1 ♀, desiccated (MSNG). Genova, C.so Magenta, nella Biblioteca della Società Entomologica, 4.III.1985, Leg. R. Poggi; 1 ♀ (MSNG). Genova - Foce, 19.VII-1983, leg. Magnasco; 1 ♀ (MSNG). Genova - Porto (uffici CAP), 29-XII.1988, Leg. Gattulli; 2, 1 ♀, 1 ♂ (MSNG). Ge- Via G. Rossetti, 9/IV/1989, leg. Salvazeni; ca. 8 broken, unsexed (MSNG). Is. Giglio, G. Doria; 1 ♀, 1 ♂ (MSNG).

Recorded from Liguria before (MENDES 1980). New for Giglio.

Ctenolepisma (C.) mauritanica (Lucas)

Material examined. ETHIOPIA: Assab, XII.1884, G. Frasca; 2 ♀♀ (MSNG). SOMALIA: Belet Amin, 1934, Patrizi e Confalonieri; 1 ♀ (MSNG).

Though known from adjacent Saudi-Arabia (IRISH 1991) and Yemen (WYGODZINSKY 1952), this is the first time the species has been recorded from Africa.

Ctenolepisma (C.) rothschildi Silvestri

Ctenolepisma rothschildi Silvestri, 1907: 514; 1922: 160.

Lepisma nigra Oudemans, 1890: 82. *syn. nov.* (*p.p.*: Buitenzorg ex. only).

Ctenolepisma nigra Escherich, 1905: 98 (*p.p.*); Silvestri, 1913: 56; Wygodzinsky, 1959a: 441.

Ctenolepisma diversisquamis Silvestri, 1908: 153; Wygodzinsky, 1955: 1; Paclt, 1966: 151; Wygodzinsky, 1972: 14; Mendes 1982: 611, 1986a: 17, 1986b: 334, 1986c: 214; Irish, 1986: 344; Mendes, 1992: 226. *syn. nov.*

Ctenolepisma reducta Folsom, 1923: 170; Silvestri, 1934: 305; Wygodzinsky, 1959b: 33.

Ctenolepisma rothschildi was described from Ethiopia and Somalia, but not recorded again. The present material allowed an assessment of its status to be made. Examination of the types of *C. rothschildi* showed them to be conspecific with the widespread and better known *C. diversisquamis* (as already suspected by IRISH 1986). The name *C. rothschildi* takes date priority and becomes the valid name for the taxon.

The types of *Lepisma nigra* were also examined. The single specimen from Buitenzorg was found to belong to *C. rothschildi*, while most of the Maumerie specimens conform to true *C. nigra*, as per the original description. The redescription of *C. nigra* by SILVESTRI (1913) refers to *C. rothschildi*, and therefore also the material of WYGODZINSKY (1959a). True *C. nigra* carries 3+3 bristlecombs on urotergites II-VI. The Buitenzorg cotype of *L. nigra* is therefore hereby excluded from the type series of *L. nigra*, on the grounds of heterogeneity.

Judging by the descriptions only (requests to borrow the types, in MNHN, went unanswered), it is highly probable that both *Ctenolepisma incita* and *Ctenolepisma brachyura* Silvestri 1918, from Kenya, may be conspecific with *C. rothschildi*, too. PACLT (1966) already suggested this for at least *C. brachyura*. *C. reducta* was previously synonymised with *C. diversisquamis* by WYGODZINSKY (1972).

C. rothschildi is easily recognisable by the urotergal setation (3+3 bristlecombs on urotergites II-V, as in the original description, and not II-VI, as given in SILVESTRI 1922), the relatively few macrosetae per urotergal bristlecomb (2-4), the short urotergite X, and the presence of pauciradiate scales in well preserved material. Individuals tend to be of small size (maximum body length recorded here is 9 mm).

Many records of *C. rothschildi* are anthropophilic, and the species is easily transported by man (e.g., PACLT 1966, and many records below). It is cosmopolitan, being particularly common in the warmer parts of the world, and is now known in the literature from Cape Verde, Colombia, Ethiopia, French Polynesia, Gambia, Germany, India, Indonesia, Netherlands Antilles, Nigeria, Puerto Rico, Sierra Leone, Somalia, Srilanka, United States, Venezuela and Zaïre. Below are added new records for Brazil, Cuba, Dominican Republic, Honduras, Montserrat and Papua New Guinea.

Types examined:

LECTOTYPE: here designated, male, body broken: MUSÉUM PARIS, Ethiopie MÉR., Bouttah, M. de Rothschild [*sic!*], 1905, *Ctenolepisma Rothschildi* Silv., Auct. det. 1908 [male sign], Cotypes! (17 Août 1904); Collection MAURICE DE ROTHSCHILD, Date 17 Août 1904, Loc. Bouttah; *Ctenolepisma Rothschildi* Silv., [male sign] Cotypus! (MNHN).
PARALECTOTYPE: here designated, female, body length 5 mm, desiccated: MUSÉUM PARIS, Abyssinie, Diré Daoua, M. de Rothschild, 1905, *Ctenolepisma Rothschildi* Silv., Auct. det. 1908, Cotype! [female sign]; *Ctenolepisma Rothschildi* Silv., [female sign] Cotypus! (MNHN).

Associated with the types of *C. rothschildi*, but not labelled as types, are a well preserved male from Daouenlé, and three unsexed and very broken specimens from Tchafianani (MNHN).

Additional material examined: BRAZIL. Rio de Janeiro, Brazil, September 1962,

H.B. Mills, in house; 18 ♀♀, 16 ♂♂, 3 unsexed (INHS). CUBA: Baragua, collected in old box, 29.IX.1931, L.D. Christenson; 1 unsexed, broken (USNM). DOMINICAN REPUBLIC. on didi divi pod, [ex] Dominican Republic, [intercepted] at Philadelphia, Penna., 15.IX.1952; 1 ♂ (USNM). ETHIOPIA: Addis Abeba, 20.V.1967, in house, coll. L.W. Teller; 1 ♀, 1 unsexed (USNM). HONDURAS: in trunk of wearing apparel, [ex] Honduras, Intercept. N. Orleans, La. [Louisiana], Aug. 4, 1933; 1 ♀ (USNM). INDONESIA: *Lepisma nigra*, Buitenzorg; 1 ♂ (original cotype, types heterogeneous) (ZMAN). MONTSERRAT: dry herbs, [ex] Montserrat, B.W.I., [intercepted] at Boston, Mass., 15.X.1952; 1 ♀ (USNM). PAPUA NEW GUINEA: Morobe District, Wau, Big Wau Creek, 1200 m, 26.II.1973, Thomas W. Davies; 1 ♀ (CASC). SOMALIA: Belet Amin, 1934, Patrizi e Confalonieri; 1 ♀ (MSNG). UNTRACED: Banana leaf packing in baggage [from] San Mateo, Oct. 2 1933, [intercepted at] Quar. Phila. [delphia]; 1 unsexed, damaged (USNM). VENEZUELA. Peanuts [from] Venezuela, [intercepted USA], 28.II.1935; 1 ♀ (USNM).

***Ctenolepisma* (C.) *somaliensis* Mendes**

Material examined: SOMALIA: Belet Amin, 1934, Patrizi Confalonieri; 3 ♀♀, 2 ♂♂ (MSNG). Mogadiscio, 1931, V. Priarone (tra le formiche); 1 ♀, plus 2 ants, apparently *Camponotus maculatus* F., but not formally identified (MSNG).

The above records extend the distribution of this species, previously known from a single locality in southern Somalia (MENDES 1988). *Ctenolepisma* spp. are not normally myrmecophilous.

***Ctenolepisma* (*Sceletolepisma*) *albida* Escherich**

Material examined. ALGERIA: dune a sud dell'Oasi di Timimoun, 30.XII.1986, leg. F. Vanucci; 1 ♂ (MSNG). CANARY ISLANDS: Lanzerote, 15.VIII.1882, Crociera del "Corsaro"; 1 ♂ (MSNG).

Widespread in North Africa, including Algeria (WYGODZINSKY 1958), but not before recorded from the Canary Islands.

Ctenolepisma (S.) sudanica Mendes

Material examined. SAUDI ARABIA: Arafati, 25.10.1891, Dr. V. Ragazzi; 2 ♂♂ (MSNG).

Previously known only from females, described from northeastern Sudan (MENDES 1982). The present males agree with the females' description in all respects, except in the slightly shorter inner processes of coxites IX (each about 0.3 times the length of stylus IX), which results in a correspondingly wider appearance for the inner process. If the locality 'Arafati' is meant to indicate Arafat, near Makkah in Saudi Arabia, across the Red Sea from the type locality, this would indicate a new record for Saudi Arabia.

Ctenolepisma (S.) targionii (Grassi & Rovelli)

Material examined. ITALY: Genova, città, 15.IV.1987, leg. R. Poggi; 1 ♀ (MSNG). Genova, città, 30.VIII.1987, leg. R. Poggi; 1 ♀ (MSNG).

Described from Italy, and first recorded from Genova by MENDES (1980).

Lepisma saccharina (L.)

Material examined. ITALY: Is. Il Catalano, Sard. W., 12.VI.1989, leg. R. Poggi; 4, 1 ♀, 3 ♂♂ (MSNG). Is. Il Catalano (Sardegna W, OR), 3.VIII.1986, leg. R. Argano; 2 ♀♀, 1 ♂ (MSNG). Isolotto Il Catalano (Sardegna W, OR), 3.VIII.1986, leg. R. Poggi; 2 ♀♀, 2 ♂ (MSNG). Sardegna W: Is. Il Catalano (OR), 28.VI.1984, leg. R. Poggi; 2 ♀♀ (MSNG). Sardegna N-E: Arcip. Maddalena, Is. La Presa (SS), 30.VI.1981, leg. N. Baccetti; 4, 1 ♀, 3 unsexed juveniles (MSNG). Dint. di Kammo, Alto Isonzo, IV-VI-1916, A. Andreini; 1 ♀ (MSNG).

Found throughout Italy, first recorded from Sardinia by PARONA 1888.

***Neoasterolepisma crassipes* (Escherich)**

Material examined. ITALY: Sicilia, Piano Zucchi (PA), Madonie, 1100 m, 8.V.1981, leg. R. Poggi; 1 ♀ (MSNG).

Known from Sicily, first recorded from there by WYGODZINSKY (1941).

***Stylifera galapagoensis* (Banks)**

Material examined: PERU: Arequiba Paracas, 30-1-1983, G. Dellacasa; 1 ♂ (MSNG).

Well known from Peru (IRISH 1988a).

***Thermobia aegyptiaca* (Lucas)**

Material examined. ETHIOPIA: Assab, XII.1884, G. Frasca; 3 ♀ ♀, 2 ♂ ♂ (MSNG). Massauah, aus Wohnzimmer, 16.XII.[18]94, K.M.L.; 5 ♀ ♀, 5 ♂ ♂, 1 unsexed (UZMH).

Recorded from Ethiopia before (STACH 1935). The present specimens are in too bad a condition to allow the checking of minor details, but some have prosterna approaching that of *T. infelix*, described from Somalia (cf. IRISH 1988b). The status of *T. infelix* remains indeterminate, but it does seem possible that it may lie within the bounds of variation of *T. aegyptiaca*.

***Thermobia domestica* (Packard)**

Material examined. ETHIOPIA: Assab, Sped. Franchetti-Dancalia 1928-29, 1929, S. Patrizi; 1 ♂ (MSNG). ITALY: Is. Dissei, IV.92, "Scilla"; 2 ♂ ♂ (MSNG).

New for Ethiopia.

Tricholepisma aurea (Dufour)

Material examined. ITALY: Castiglioncello Bandini (Prov. di Grosseto), VII.1919, Andreini; 1 ♂ (MSNG). Moscona (Grosseto), 12.III.1918, Dr. Andreini, 25, 12 ♀♀, 13 ♂♂ (MSNG). Sardegna N-E, Is. Bisce (SS), 11.XI.1986, leg. R. Poggi, 1 ♀, 2 ♂♂ (MSNG). Sardegna N-E: Is. delle Bisce (SS), 11.XI.1986, leg. M. Zapparoli; 6, 3 ♀♀, 3 ♂♂ (MSNG). Sardegna N-E: Is. delle Bisce (SS), 11.XI.1986, leg. R. Poggi; 1 ♀, 8 immatures (MSNG). Is. Camere W (Sardegna N-E, prov. SS), 11.IV.1986, leg. C. Manicasteri; 4, 1 ♀, 3 ♂♂ (MSNG).

Found throughout Italy; previously recorded from Sardinia (PARONA 1882).

Tricholepisma gyriniformis (Lucas)

Material examined. ITALY: Lippiano (Arezzo), IV-1918, Dr. Andreini; 1 ♂ (MSNG).

Though long known from Sicily (GRASSI & ROVELLI 1889), this is the first record of *T. gyriniformis* from the Italian mainland. It is also the most northerly point at which the species has been recorded so far.

ACKNOWLEDGEMENTS

I wish to thank Dr. V. Raineri (MSNG) for allowing me to study this interesting collection. Material from other institutions were kindly made available by Drs. J. Coddington (USNM), W. Hogenes (ZMAN), V.F. Lee (CASC), J. Legrand (MNHN), K.C. McGiffen (INHS) and P. Vilkamaa (UZMH).

REFERENCES

- ESCHERICH K., 1905 - Das System der Lepismatiden - *Zoologica*, Stuttg., **43**: 1-164.
- FOLSOM J.W., 1923 - A new lepismid from Porto Rico - *Proc. ent. Soc. Wash.*, **25**: 169-170.
- GRASSI B. & ROVELLI G., 1889 - Tavola analitica dei Tisanuri italiani da noi finora riscontrati - *Boll. Soc. ent. ital.*, **21**: 3-8.
- IRISH J., 1986 - A new species and records of Senegambian Lepismatidae (Thysanura) - *J. ent. Soc. stb. Afr.*, **49**: 343-347.
- IRISH J., 1988a - Revision of *Stylifera* Stach and its bearing on African South West Arid biogeography (Thysanura: Lepismatidae) - *Annals Soc. ent. Fr. (N.S.)*, **24**, (1): 59-67.
- IRISH J., 1988b - Revision of *Thermobia* Bergroth (Thysanura: Lepismatidae) - *Cimbebasia*, **10**: 15-30.
- IRISH J., 1991 - Lepismatidae (Thysanura, Insecta) of the Arabian Peninsula - Fauna of Saudi Arabia, **12**: 225-241.
- MENDES L.F., 1978 - Nota sobre o género *Ctenolepisma* (Zygentoma, Lepismatidae) em Portugal - *Archos Mus. Bocage* (ser. 2), **6**: 279-298.
- MENDES L.F., 1980 - Notes et descriptions sur quelques Thysanoures de l'Europe (Microcoryphia et Zygentoma: Apterygota) - *Memorie Soc. ent. ital.*, **59**: 3-32.
- MENDES L.F., 1982 - Notas e descrições de Lepismatidae afrotropicais (Zygentoma: Apterygota). II. Géneros *Ctenolepisma* e *Namunukulina* - *Revue zool. afr.*, **96**: 591-661.
- MENDES L.F., 1986a - Some new data on the Capeverdean Thysanurans (Insecta: Zygentoma) - *Cour. Forsch. - Inst. Senckenberg*, **81**: 17-23.
- MENDES L.F., 1986b - Nouvelles données sur les Zygentoma (Insecta) de l'Amerique Centrale et du Mexique - *Bull. Mus. natn. Hist. nat.*, Paris (Ser 4), **8**, (A): 333-342.
- MENDES L.F., 1986c, Nova contribuição para o conhecimento dos tisanuros africanos (Zygentoma: Lepismatidae e Ateluridae) - *Revue zool. afr.*, **100**: 213-227.
- MENDES L.F., 1988 - A survey of the Lepismatidae (Insecta Zygentoma) of Sar Uanle (Somalia) - *Tropical Zoology*, **1**: 3-21.
- MENDES L.F., 1992 - Nova contribuição para o conhecimento dos tisanuros (Microcoryphia e Zygentoma: Insecta) da República Democrática de Cabo Verde - *Garcia de Orta, Sér. Zool.*, **16**: 225-233.
- OUDEMANS J.T., 1890 - Apterygota des Indischen Archipels - In: Weber, (Ed.) Zoologische Ergebnisse einer Reise in Niederländisch-Ostindien, Leiden, **1**: 73-92.
- PACLT J., 1966 - Neue Beiträge zur Kenntnis der Apterygoten-Sammlung des Zoologischen Saatsinstituts und Zoologischen Museums Hamburg. II. Lepismatidae und Maindroniidae (Thysanura) - *Ent. Mitt. zool. Stinst. zool. Mus. Hamb.*, **3**: 147-161.
- PARONA C., 1882 - Di alcune Collembola e Thysanura raccolte dal Professore P.M. Ferrari, con cenno corologico delle Collembola e Thysanura italiane - *Ann. Mus. Stor. Natur. Genova*, **18**: 453-464.
- PARONA C., 1888 - Res Ligusticae. VI. Collembola e Tisanuri finora riscontrate in

- Liguria determinate dal Prof. Corrado Parona - *Ann. Mus. Stor. Nat. Genova*, **26**: 133-154.
- PARONA C., 1892 - Di alcuni Tisanuri e Collembole della Birmania. Raccolti da Leonardo Fea - *Atti soc. ital. Sci. nat.*, **34**: 123-135.
- RIDLEY H.N., 1881 - Notes on Thysanura collected in the Canaries and Madeira - *Entomol. monthly Mag.*, **18**: 14.
- SILVESTRI F., 1907 - Collections recueillies par M.^{eur} Maurice de Rothschild, dans l'Afrique orientale. Thysanoures - *Bull. Mus. natn. Hist. nat.*, Paris, **13**: 513-517.
- SILVESTRI F., 1908 - Tisanuri raccolti da L. Fea alle isole del Capo Verde, alla Guinea Portoghese e alla isole S. Thomè, Principe e Fernando Poo - *Ann. Mus. civ. Stor. nat. Giacomo Doria* (Ser. 3), **4**: 133-187.
- SILVESTRI F., 1913 - On some Thysanura in the Indian Museum - *Rec. Indian Mus.*, **9**: 51-62.
- SILVESTRI F., 1918 - Insectes Aptéryogéniens. I. Thysanoures - Result. sci., Voyage Alluaud Jaennel Afr. orient., Paris: 1-27.
- SILVESTRI F., 1922 - Thysanoures - Voyage Rothschild Ethiop., 157-165.
- SILVESTRI F., 1924 - Marquesan Thysanura - *Bull. Bernice P. Bishop Mus.*, **144**: 305-312.
- STACH J., 1926 - Thysanura - In: Mertens, R. (Ed.) Zoologische Ergebnisse einer Reise nach den Pelagischen Inseln und Sizilien. *Senckenbergiana*, **8**: 260.
- STACH J., 1935 - Fauna rybików Egiptu. Die Lepismatiden-Fauna Ägyptens - *Annals Mus. zool. pol.*, **11**: 27-111.
- WYGODZINSKY P., 1941 - Zur Kenntnis einiger europäischen Dipluren und Thysanuren - *Verh. naturf. Ges. Basel*, **52**: 63-100.
- WYGODZINSKY P., 1952 - On some Machilidae and Lepismatidae from Israel, Cyprus and Arabia (Thysanura, Insecta) - *Bull. Res. Counc. Israel* (B), **2**: 260-263.
- WYGODZINSKY P., 1955 - Ergebnisse der Zoologischen Forschungsreise von Prof. Dr. Hakan Lindberg nach den Kapverdischen Inseln im Winter 1953-1954. No. 2. Thysanura - *Commentat. biol.*, **15** (11): 1-4.
- WYGODZINSKY P., 1958 - Notes et descriptions de Machilida et Thysanura paléarctiques - *Revue fr. Ent.*, **25**: 298-315.
- WYGODZINSKY P., 1959a - Contribution to the knowledge of the Thysanura and Machilidae (Insecta) - *Revta bras. Biol.*, **19**: 441-457.
- WYGODZINSKY P., 1959b - Thysanura and Machilida of the Lesser Antilles and northern South America - *Stud. Fauna Curaçao*, **9**: 28-49.
- WYGODZINSKY P., 1972 - A review of the silverfish (Lepismatidae, Thysanura) of the United States and the Caribbean area - *Am. Mus. Novit.*, **2481**: 1-26.

SUMMARY

Distribution data of material in the MSNG collection is summarised. A few new country records are noted, of which the finding of *Ctenolepisma mauritanica* (Lucas) in North East Africa is the most interesting. Both *C. diversisquamis* Silvestri and *C. nigra* (Oudemans) (*p.p.*) are shown to be synonyms of the earlier described *C. rothschildi* Silvestri.

RIASSUNTO

Vengono forniti dati sui Tisanuri custoditi presso il Museo di Storia Naturale G. Doria, di Genova. Per alcuni paesi vi sono nuove segnalazioni di Tisanuri, tra queste la più importante riguarda *Ctenolepisma mauritanica* (Lucas) nell'Africa Nord-orientale. Viene anche dimostrato che *C. diversisquamis* e *C. nigra* sono sinonimi di *C. rothschildi* Silvestri.